Tuesday, 12/18/2007 10:45:42 AM Date: Úser: Kim Johnston **Process Sheet** : MOUNTING BRACKET : CU-DAR001 Dart Helicopters Services **Drawing Name** Customer Job Number : 36395 Estimate Number : 11796 : D2523 Part Number P.O. Number **Drawing Number**  D2523 REV A2 This Issue : 12/18/2007 S.O. No. : : N/A Prsht Rev. : NC Project Number · A2 : // · MACHINED PARTS First Issue Type **Drawing Revision** : 33047 Material **Previous Run** : 1/7/2008 20 Um: Each **Due Date** Written By Checked & Approved By 01.04.16 Re format, added DT8560 EC Comment -: Est. Additional Product Job Number: Description: Sea. #: -6061-T6 Bar 1.0" x 12.0" M6061T6B1000X12000 Mo6701-26.6434 f(s) Comment: Qty.: Total: 38.0625 f(s) 1.9031 f(s)/Unit 6061-T6 Bar 1.0" x 12.0" į. . . · · Material: 6061-T6 (QQ-A-200/8) 1.00" thick Note: 2 per blank. Batch BAND SAW 2.0 Comment: BAND SAW Cut blank: 21.75" x 12.00" HAAS1 3.0 Comment: HAAS CNC VERTICAL MACHINING #1 Machine as per folio D2523 QC2 4.0 INSPECT PARTS AS THEY COME OFF MACHINE Comment: INSPECT PARTS AS THEY COME OFF MACHINE QC8 SECOND CHECK 5.0 Comment: SECOND CHECK SMALL FAB SMALL & MEDIUM FAB RESOURCE 1 6.0 Comment: SMALL & MEDIUM FAB RESOURCE 1 Deburr 08-01-16 Drill holes as per dwg D2523 using DT8560

Page 1

## Dart Aerospace Ltd

W/O:	411	WORK ORDER CHANGES								
DATE	STEP		PROCEDURE CHANGE	, a .	_	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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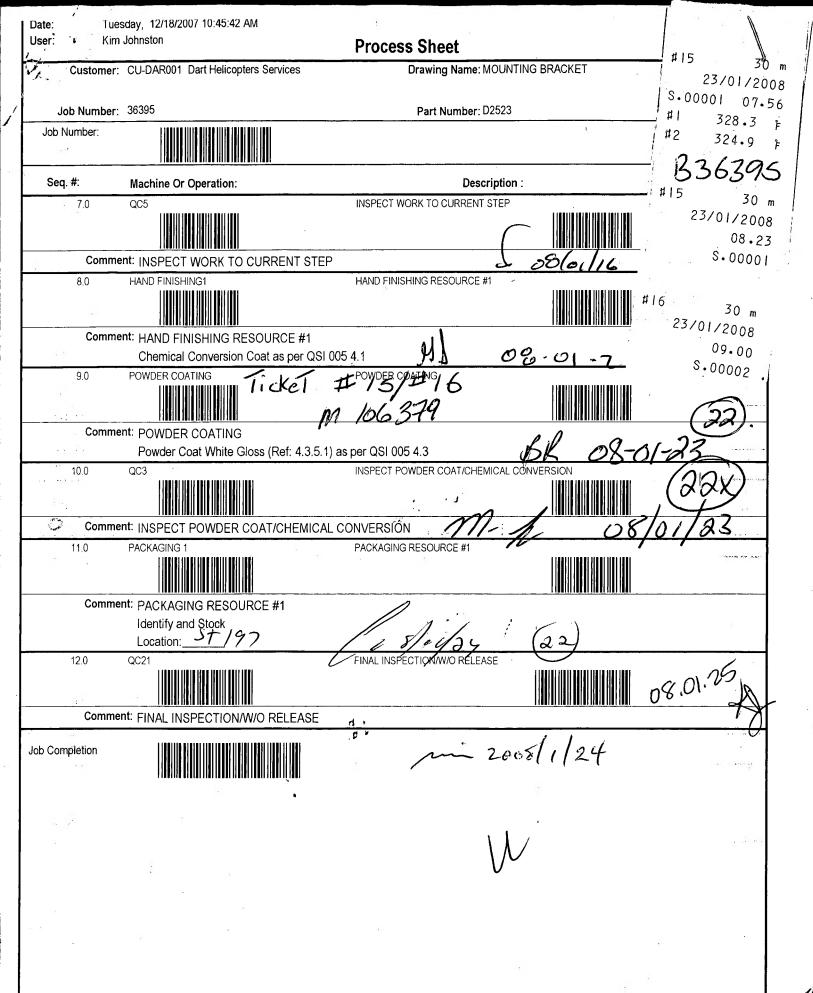
Part No: <u>D2523</u>

PAR #: A Fault Category: Pros mach

NCR: Yes No DQA:

NCR: 3/	395	W	WORK ORDER NON-CONFORMANCE (N					
		Description of NC	Description of NC Section A  Corrective Action Section B  Initial Action Description Sign & Date		Verification	Approval	Approval	
DATE	STEP				Section C	Chief Eng	QC Inspector	
08/01/07	30	2 first parts, 1/2" Rougher pulled out of the holder!		Reassemble tool inholder/collete	DIP 8/01/67			
		collet	esial2	Scropp destroy i replace aty 2 B 166701		oslictos	OSIUZ	107.01.02
Blake	XÌ.	2 ports have the.	08.01.09	Acceptable. See attached calculation,	JL		08.01.09	6
6600	30	thickness & 0.100"		all latines straightfully	0000101	odoiles.	•	cela/10
		C. Mot. Hacks						,

NOTE: Date & initial all entries



## **Dart Aerospace Ltd**

W/O:			WORK ORDER C	HANGES			
DATE	STEP	PRO	OCEDURE CHANGE	Ву	Date	Qty Approval Chief Eng / Prod Mgr	Approva QC Inspecto
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Part No	:	PAR #:	Fault Category:	NCR: Yes	No DQA:	Date: _	
				QA:	N/C Closed:	Date: _	
NCR:			WORK ORDER NON-CONF	ORMANCE (NC	R)		

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Approval Chief Eng	A		
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		Approval QC Inspector		
						4- (				
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<del> </del>		-31								
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						7				

NOTE: Date & initial all entries

DART AEROSPACE LTD	Work Order:	36395
Description: Mounting Bracket	Part Number:	D2523
Inspection Dwg: D2523 Rev: A2		Page 1 of 1

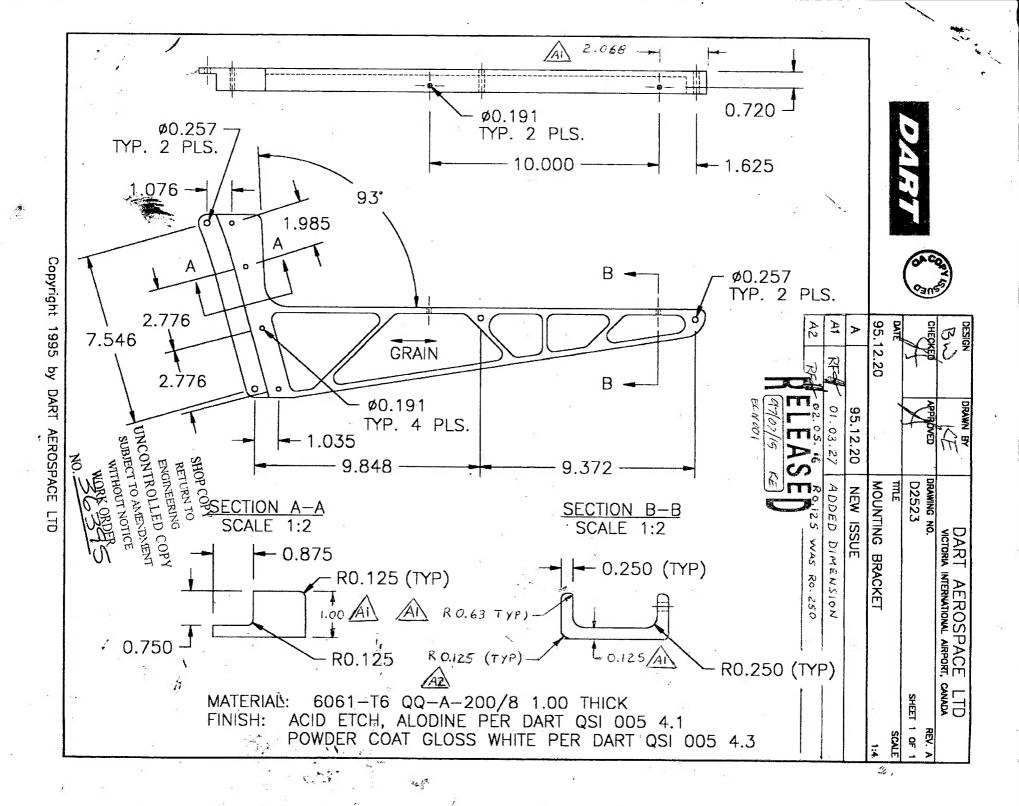
## FIRST ARTICLE INSPECTION CHECKLIST

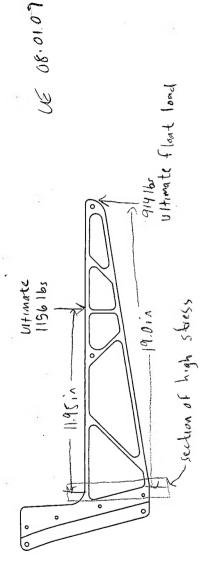
X First Article Prototype

Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of ' Inspection	Comments
Ø0.257	+0.005/-0.000	0.258	/	14.		
1.076	+/-0.010	1.0765				
1.985	+/-0.010	1,9845				
Ø0.257	+0.005/-0.001	0.258	/,			
9.372	+/-0.010	9.374				
1.035	+/-0.010	1.0365				•
Ø0.191	+0.005/-0.000	0.193	1/			
7.546	+/-0.010	7.547				
2.776	+/-0.010	2.775	/			
2.776	+/-0.010	2.776		•		
0.875	+/-0.010	0.8725				
R0.125	+/-0.010	0.125		,		
1.00	+/-0.030	1.010	1			
R0.125	+/-0.010	0.125				
0.750	+/-0.010	0.747		5		
0.250	+/-0.010	0,256				
R0.250	+/-0.010	0.250	<b>/</b>			
0.125	+/-0.010	0.128				
R0.125	+/-0.010	0.125				
R0.063	+/-0.010	0.0625	<u> </u>			

Measured by:	Audited by:	mp	Prototype Approval:	N/A
Date: 08/01/07	Date:	08/0/107	Date:	N/A

Rev	Date	Change	Revised by	Approved
Α	05.02.17	New Issue	KJ/JLM J	





$$\frac{(1055-5ection)}{400}$$

$$\frac{400}{4} - \frac{125}{5} = \frac{6015}{5} = \frac{100-2(6-6)}{12}$$

$$\frac{12}{5} = \frac{100-2(6-6)}{12}$$

$$\frac{12}{5}$$

$$7.4 = (1.0)(4.0)^3 - (3.5)^3 (1-0.100)$$

$$1.2$$

$$1.4 = 2.118_{11}$$

15 acceptable : deviation BMAX 1 1 1.57 Margin of Safety=

Manuelle CT 44				
Moments of Inertia	Section Modu	II. and Radii of	Gyration (	(Continued)

	Area of Section,	Distance from Neutral	Moment of Inertia.	Section Modulus,	Radius of Gyration,
Section	A	Axis to Extreme Fiber, y	1	Z = I/y	$k = \sqrt{I/A}$
		C-	Sections		
	dt + a(s + n)	<u>d</u> 2	$V_{12} \left[ bd^3 - \frac{1}{8g} (h^4 - l^4) \right]$ $g = \text{slope of flange}$ $= \frac{h - l}{2(b - t)} = \frac{1}{2}$ for standard channels.	$\frac{1}{6d} \left[ bd^3 - \frac{1}{8g} (h^4 - l^4) \right]$	$\sqrt{\frac{V_{12} \left[ b d^3 - \frac{1}{8g} (h^4 - l^4) \right]}{dt + a(s+n)}}$
	d1 + 2a(s + n)	$b - \left[b^2 s + \frac{h^2}{2}\right]$ $+ \frac{g}{3}(b - t)^2$ $\times (b + 2t) + A$ $g = \text{slope of flange}$ $= \frac{h - t}{2(b - t)}$	$\frac{V_3 \left[ 2sh^3 + lt^3 + \frac{g}{2}(b^4 - t^4) \right]}{-A(b-y)^2}$ $g = \text{slope of flange}$ $= \frac{h-l}{2(b-t)} = \frac{V_6}{4}$ for standard channels.	<u>I</u> y	$\sqrt{rac{I}{A}}$
- b -   1	bd - h(b - 1)	<u>d</u> 2	$\frac{bd^3-h^3(b-t)}{12}$	$\frac{bd^3 - h^3(b-t)}{6d}$	$\sqrt{\frac{bd^3 - h^3(b-t)}{12[bd - h(b-t)]}}$

Moments of Inertia, Section Moduli, and Radii of Gyration (Continued)							
Section	Area of Section, A	Distance from Neutral Axis to Extreme Fiber, y	Moment of Inertia,	Section Modulus, $Z = I/y$	Radius of Gyration, $k = \sqrt{I/A}$		
h	bd - h(b - t)	$b - \frac{2b^2s + ht^2}{2bd - 2h(b - t)}$	$\frac{2sb^3+ht^3}{3}-A(b-y)^2$	$\frac{I}{y}$	$\sqrt{\frac{I}{A}}$		
		T-S	ections				
	bs + ht	$d - \frac{d^2t + s^2(b - t)}{2(bs + ht)}$	$\frac{1}{4} [ty^3 + b(d-y)^3 - (b-t)(d-y-s)^3]$	<u>t</u> y	$\sqrt{\frac{1}{3(by+ht)}[ty^4+b(d-y)^2 - (b-t)(d-y-s)^3]}$		
b	$\frac{l(T+t)}{2} + Tn + a(s+n)$	$d -  3s^{2}(b - T) + 2am(m + 3s) + 3Td^{2} - l(T - t)(3d - l)  + 6A$	$V_{13}l^{3}(T+3t)+4bn^{3}-2am^{3}]-A(d-y-n)^{2}$	<u>I</u> y	√Ā		
+ b - 1	$bs + \frac{h(T+t)}{2}$	$d - [3bs^{2} + 3ht (d + s) + h (T - t)(h + 3s)] $ 6A	$N_2[4bs^3 + h^3(3t + T)]$ $-A(d - y - s)^2$	<u>I</u> y	$\sqrt{\frac{l}{A}}$		

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